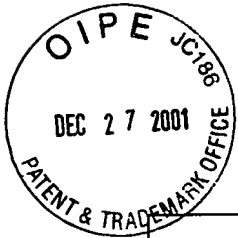


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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of: Lee et al.

Serial No.: 09/181,311

Filed: October 28, 1998

For: *In vitro Differentiation of Vascular Smooth  
Muscle Cells and Reagents Related Thereto*

Examiner: Turner, S.

Group Art Unit: 1647

Docket No.: HUV-046.01 (former  
APV-382.01)Box AF  
Assistant Commissioner for Patents  
Washington, D.C. 20231

## Certificate of First Class Mailing

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as first class mail in an envelope addressed to: Box AF, Assistant Commissioner for Patents, Washington, DC 20231, on the date indicated below:

November 9, 2001

Date of Signature and Mail Deposit

By: Michael PhelRESPONSE AND AMENDMENT

Dear Sir:

Applicants submit this Response and Amendment in response to the Office Action mailed on May 9, 2001 in the above-referenced application. A Notice of Appeal and Petition for a three months extension of time are filed concurrently herewith. Please amend the application as follows.

In the claims:

Please cancel claims 1-6 and 10-30 without prejudice, and replace pending claims 7 and 31-33 with the amended claims 7 and 31-33 set forth below:

7. (Thrice Amended) A method for identifying a gene which is up- or down-regulated during the differentiation of neural crest cells into smooth muscle cells, comprising
- (i) culturing cells of an immortalized neural crest cell line under culture conditions sufficient for the neural crest cells to differentiate uniformly into smooth muscle